

Summary report of stock use in wilderness meadows
Sequoia and Kings Canyon National Parks, 2000

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Introduction

This document provides the 2000 annual summary of reported administrative and recreational saddle and packstock use of the wilderness meadows of Sequoia and Kings Canyon National Parks (SEKI). This information is collected via reporting forms that are distributed to commercial, private, and administrative stock users, and from the wilderness permit database. After each trip all stock users at SEKI are required to provide the information requested on these forms.

Data on stock use of the wilderness meadows of SEKI has been collected in one form or another for over fifty years. In 1986, a standardized approach with accompanying computer database was initiated, and this method, although modified, is still in use today. From this database, yearly summary statistics are prepared and presented in tabular and graph form, and comparison with past years use is presented.

Methods

At the beginning of each field season (May) all commercial and administrative stock users of the wilderness at SEKI are provided forms to document their trips. Private stock users are given a "Stock-Use Card" along with the issuance of their wilderness permit. All stock users are required to respond to the information requested on these forms, which includes:

- 1) Name of packer
- 2) Date of trip
- 3) Packer classification (commercial, administrative, or private)
- 4) Type of stock used
- 5) Number of stock
- 6) Number of people
- 7) Name and location of forage areas where stock grazed
- 8) Number of nights spent in each forage area

After each trip these forms are completed and returned to the meadow monitoring specialist at SEKI and the information is then entered into a database. This years database file is named "**stock00.mdb**", and contains over 500 records of various private, commercial, and administrative overnight stock trips.

In previous years (prior to 1998) there was some confusion over the terminology used to calculate use levels presented in the annual stock use report. It appears as though the term stock night had been used interchangeably with animal unit night, and it was not always clear which unit was being referred to. The following definitions are intended to help clarify these terms and to set the stage for the data that follow in the rest of the report.

Conventionally, an overnight stay by a pack animal is defined in terms of a common currency, the **animal unit night**. An **animal unit** is equal to approximately 1,000 pounds of grazing animal; an animal unit night refers to an overnight stay by that animal. In range management almost everything is compared to cows, which at approximately 1,000 pounds are rated at 1.00 animal unit night. According to this system, an overnight stay by a horse or mule is defined as 1.25 animal unit nights. An overnight stay by a burro is 0.50 of an animal unit night, and a llama is 0.35 of an animal unit night. The use of animal unit nights reflects the variation in forage consumed by these different sized animals, and allows for comparison with other grazing systems. An adult horse consumes approximately 25% more forage than an adult cow in a 24 hour period, a llama consumes 35% of that of a cow, and a burro about 50%. Thirty animal unit nights are equal to one **animal unit month** (AUM) which is the amount of dry forage required by one animal unit for one month based on a standardized forage allowance of 26 pounds per day. The use of these standardized units allows range managers to compare use across systems

and to establish grazing capacities based on the varying consumption of forage by different types of animal.

For the purposes of this report, and to make the data accessible to all users, a **stock night** represents an overnight stay by any pack animal, without reference to the more conventional animal unit night. In order to facilitate comparison between years, the statistics that follow are reported in stock nights. Where the data allow, summary figures are reported in both animal unit and stock nights in order to provide as much information as possible. **When referring to earlier reports, note that there may be discrepancies in the numbers reported due to use of different terminology.** Discussions of grazing capacity, as in the annual Residual Biomass Monitoring Report, always rely on the more conventional animal unit night.

The following figures represent overnight visits by stock only, they do not include stock use from day trips, or drop trips which were completed in one day.

Results

User compliance. Of the 24 commercial pack stations operating in Sequoia and Kings Canyon during 2000 (four concessioners, 20 Incidental Business Permit (IBP) holders), seven submitted their annual stock use reports by the October 31 due date specified in their contract or permit. Another nine submitted their reports within one month after the deadline. Five responded after two months had passed and after receiving phone calls requesting the data. The remaining three pack stations failed to respond to repeated requests. Note that because of these missing reports, this document under-reports commercial use (and hence total stock use) for 2000. The availability of ranger observations made it possible to record a limited number of the unreported nights, but these clearly represent only a subset of their actual use.

Of the fifty-nine trips made by private parties during 2000, fourteen users returned their cards without further prompting at the end of the season. The remaining trips were documented by cross referencing staff observations with the wilderness permit database. Our ability to identify private vs. commercial users was enhanced this year by having permit issuers note the type of user on the permit at the trailhead.

Reported recreational and administrative stock use during the summer of 2000 totaled **6,971 stock nights**, or 8,253 animal unit nights. This represents a decrease of 11% compared to 1999, which had a total of 7,780 stock nights reported. Relative to 1999, reported commercial use decreased by 25%, while reported private use increased by 6%. Administrative use decreased by 2%.

The following statistics describe 2000 stock use by stock type, user type, month, and forage area; and compares that use with past years for which data are available. The letter next to the year indicates the type of snow pack winter (d=dry, n=normal, w=wet) that preceded the field season. According to the amount of moisture in the snowpack, we categorize a year as one of the following:

- 1) **Dry** (less than 50% of average precipitation)
- 2) **Normal** (51% to 150% of the average precipitation)
- 3) **Wet** (more than 150% of the average precipitation)

The snowpack is the best indicator we have of the amount of moisture the meadows received. Meadow opening dates for a particular season are adjusted based on snowpack in the high country during the preceding winter.

2000 was a normal year in the southern Sierra Nevada, with a May 1 snowpack ranging from 61% to 101% of normal in Sequoia and Kings Canyon drainages. Consequently, most passes were snow-free and stream crossings relatively manageable at the start of the season. Opening dates for the majority of backcountry meadows were in line with the normal year guidelines.

Types of use. Use is divided into three categories: **Commercial** users are people or companies that pack in stock as a paid service. Companies or individuals of this type are required to hold a commercial operators license with the park. **Private** use is packing done by an individual or with his or her friends or family. Only a standard backcountry permit is required for this type. **Administrative** users are those that are employed by the National Park Service and who use pack stock in order to carry out their official duties.

2000	%	Stock Nights	Animal Unit Nights	Animal Unit Months
Commercial	38	2,648	2,946	98
Private	15	1,062	1,231	41
Administrative	47	3,261	4,076	136
TOTAL	100	6,971	8,253	275

Supplemental feed. Reported use of supplemental feed (hay, pellets or grain packed in lieu of grazing) increased markedly from 77 stock nights in 1999 to 281 stock nights in 2000, nearly matching the 339 nights reported for 1998. Commercial users continued to report proportionally more use of supplemental feed than private or administrative users.

Reported use (stock nights) of supplemental feed by user group 1997 - 2000 .

	2000	1999	1998	1997
Commercial	250	51	256	99
Private	4	26	39	12
Administrative	27	0	44	31
TOTAL	281	77	339	142

Historical Use (1955 to present). Reported use of stock at Sequoia & Kings Canyon National Parks from 1955 to the present is listed below. Information from years prior to 1955 likely exists but has yet to be located and summarized. As new information arises it will be incorporated into subsequent reports. Refer to **Table 1** and **Figure 1**. It is important to note that these reflect *reported* use; due to inconsistencies in reporting, these may be quite different from actual use.

Administrative grazing at the Ash Mountain pastures is not included in these figures. Up to 90 horses and mules may be grazing at Ash Mountain at any one time. Over the years, grazing at these pastures has ranged from approximately 300 to 700 AUM's or 8000 to 21000 animal unit nights per year. Almost all of the park stock spend the winter (November to May) at the Pixley Wildlife Refuge in the San Joaquin Valley, so winter grazing at Ash Mountain is normally negligible.

TABLE 1. Historical Reported Stock Use at Sequoia and Kings Canyon National Parks. The letter next to the year indicates the type of snowpack year it was: w=wet, n=normal, d=dry. **Stock Nights** refer to an overnight stay by an animal regardless of type. **Animal Unit Months (AUM's)** are calculated by dividing the number of days in a month (30) into the number of animal unit nights; to calculate animal unit nights, multiply this figure by 30 (see text for definition).

YEAR	Commercial			Private			Administrative			Total	
	Stock Nights	%	AUMs	Stock Nights	%	AUMs	Stock Nights	%	AUMs	Stock Nights	AUMs
2000n	2648	38	98	1062	15	41	3261	47	136	6971	275
1999n	3467	45	134	974	12	40	3339	43	139	7780	313
1998w	1806	36	66	1039	21	41	2131	43	89	4976	196
1997n	3703	40	146	2969	33	113	2429	27	101	9101	360
1996n	3608	54	148	953	14	37	2147	32	89	6708	274
1995w	2746	52	115	1449	27	60	1128	21	23	5323	222
1994d	5328	56	213	1743	18	70	2431	26	101	9502	384
1993w	4200	54	140	1256	16	42	2362	30	79	7818	261
1992d	6112	55	204	1988	18	66	3007	27	100	11107	370
1991n	6619	59	221	1547	14	52	3036	27	101	11202	374
1990d	7947	62	265	1864	14	62	3084	24	103	12895	430
1989d	6810	55	227	1530	12	51	3990	31	133	12330	411
1988n	7350	60	245	1770	14	59	3210	26	107	12330	411
1987d	6000	51	200	2430	21	81	3300	28	110	11730	391
1986w	4500	48	150	1860	20	62	2940	32	98	9300	310
1985n	4530	56	151	1980	24	66	1620	20	54	8130	271
1984	4530	45	151	2700	27	90	2910	28	97	10140	338
1983	3420	41	114	3180	38	106	1740	21	58	8340	278
1982	4740	43	158	3120	28	104	3150	29	105	11010	367
1981	6120	51	204	1950	16	65	3870	32	129	11940	398
1980	3870	41	129	3060	32	102	2550	27	85	9480	316
1979	4110	41	137	3120	31	104	2790	28	93	10020	334
1978w	3390	36	113	2700	29	90	3360	35	112	9450	315
1977d	4860	38	162	4500	35	150	3540	28	118	12900	430
1976d	5790	38	193	4110	27	137	5400	35	180	15300	510
1975n	7650	40	255	6060	31	202	5610	29	187	19320	644
1974n	8730	55	291	2850	18	95	4260	27	142	15840	528

YEAR	Commercial			Private			Administrative			Total	
	Stock Nights	%	AUMs	Stock Nights	%	AUMs	Stock Nights	%	AUMs	Stock Nights	AUMs
1973w	9600	67	320	1050	7	35	3630	26	121	14280	476
1972d	10770	69	359	570	4	19	4200	27	140	15540	518
1971n	10500	67	350	570	4	19	4500	29	150	15570	519
1970n	14940	66	498	780	3	26	7050	31	235	22770	759
1969w	9540	60	318	240	2	8	6000	38	200	15780	526
1968n	13980	66	466	720	3	24	6360	30	212	21060	702
1967n	10230	69	341	540	4	18	4110	27	137	14880	496
1966d	15420	69	514	930	4	31	6000	27	200	22350	775
1965n	14520	67	484	1920	9	64	5130	24	171	21570	719
1964n	14550	74	485	1560	8	52	3600	18	120	19710	657
1963n	0	0	0	0	0	0	3900	100	130	3900	130
1962n	15000	78	500	0	0	0	4200	22	140	19200	640
1961d	24990	80	833	1890	6	63	4200	14	140	31080	1036
1960n	22920	87	830	1500	6	50	1980	8	66	26400	880
1958n	20280	69	676	4230	15	141	4500	16	150	29010	967
1956n	32820	83	1094	2190	6	73	4350	11	145	39360	1312
1955n	35490	79	1183	3180	7	106	6150	14	205	44820	1494

TOTAL STOCK NIGHTS AT SEQUOIA & KINGS CANYON NATIONAL PARKS

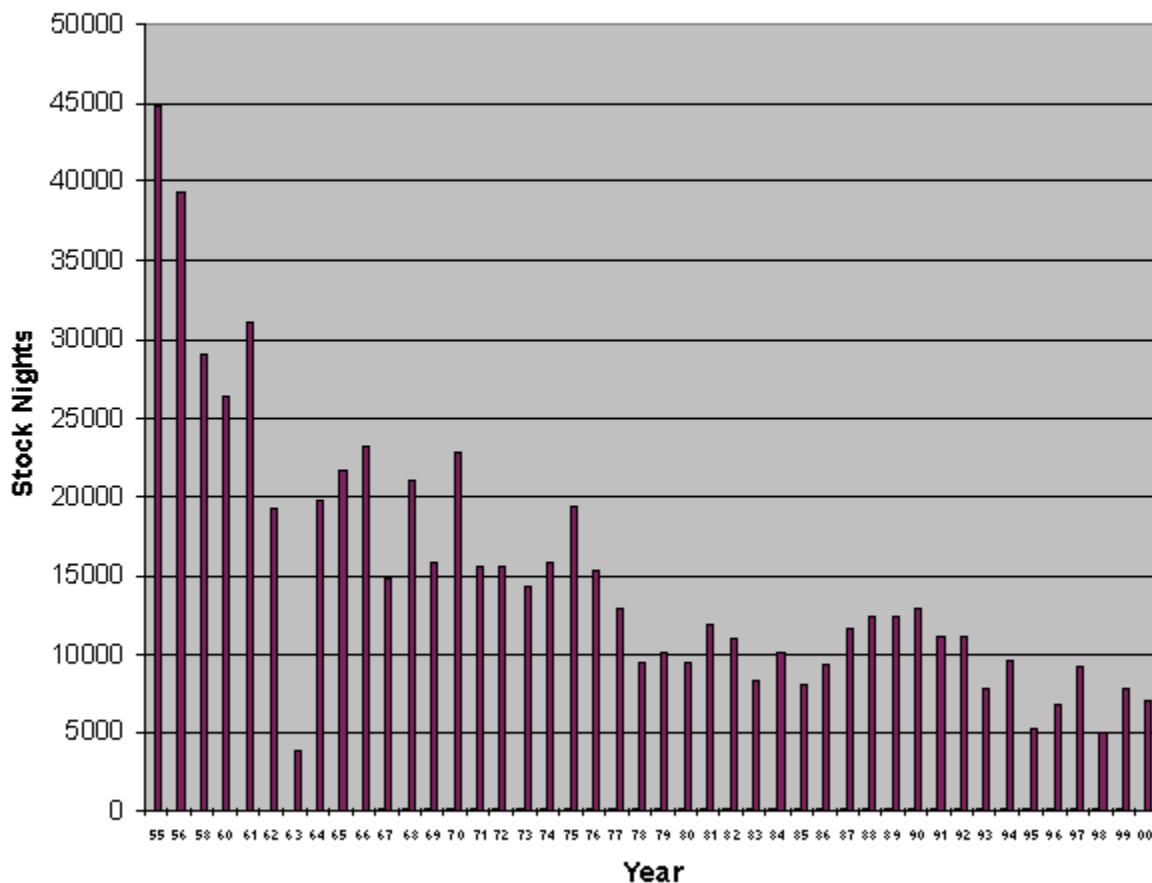


Figure 1: Reported Stock Use in Wilderness Meadows of Sequoia and Kings Canyon National Parks, 1955-2000.

Administrative Use (Stock nights). This includes all reported use by National Park Service personnel in the wilderness meadows. It does not include Ash Mountain grazing.

ADMINISTRATIVE USE										
	2000n	1999n	1998w	1997n	1996n	1995w	1994d	1993w	1992n	1991d
Cedar Grove Rangers	2	0	15	51	0	0	0	0	0	0
Grant Grove Rangers	2	0	51	0	0	0	0	0	0	0
Hockett Ranger	253	86	100	159	160	142	0	160	254	242
Hockett Trail Crew	622	637	325	41	330	208	384	565	531	63
Kern Trail Crew	861	1093	552	888	494	3	1068	391	820	693
Kern Ranger	492	465	425	429	274	200	360	300	407	276
Kern Subdistrict Ranger	10	12	0	0	0	0	44	4	48	0
Kings Trail Crew	634	854	378	558	440	351	569	616	798	908
Roaring River Ranger	218	147	154	133	200	120	120	0	0	0
Squad Trip	95	na	102	90	108	86	166	140	110	180
Miscellaneous	72	45	74	80	130	202	0	0	39	0
TOTAL	3261	3339	2176	2429	2136	1312	2711	2176	3007	2362

Commercial Use (Stock Nights). These numbers include those nights where supplemental feed was provided. Totals for previous may also include use reported by stations no longer conducting business in Sequoia and Kings Canyon National Parks.

COMMERCIAL USE (Stock Nights)										
PACKER	2000n	1999n	1998w	1997n	1996n	1995w	1994d	1993w	1992d	1991n
Balch Park	222	156	154	431	259	71	313	124	206	158
Bishop Pack Outfitters	35	329	48	139	158	246	60	0	0	0
Cedar Grove PS/ Loverin	528	887	427	669	651	573	1202	1090	1159	1642
Clyde Pack Oftts./Clyde	8	17	0	14	16	48	29	86	19	28
Cottonwood PS/Winchester	233	104	84	285	282	46	32	270	525	832
D & F Pack Station	60	0	0	0	0	110	0	0	0	0
Glacier Pack Train/Stewart	0	0	7	42	0	0	77	115	14	0
Golden Trout PS/D. Shew	79	641	62	391	147	18	207	79	116	144
High Sierra PS/Cunningham	202	109	74	154	174	32	83	113	206	223
Horse Corral PS	161	176	30	212	231	114	834	450	855	609
Leelin Llama Treks	9	24	140	0	0	0	0	0	0	0
Llamas of Circle Home/Caldwell	0	0	8	28	14	0	0	0	0	0
Lost Valley Camp PS, Ross	54	62	89	41	89	23	161	80	158	36
Mineral King PS/ Page	166	8	80	111	524	643	1112	845	1393	1939
Muir Trail Ranch/ Smith	4	23	26	7	8	14	24	6	28	44
Natl. Outdoor Leadership School	33	0	0	0	0	0	0	0	0	0
Pine Creek PS/ Berner	18	0	0	4	68	20	75	57	308	15
Rainbow Pack Outfitters	62	na	28	77	174	116	0	0	0	0
Red's Meadow PS/ Tanner	174	0	0	52	0	0	90	114	125	290
Rock Creek PS - Whitney Pack Train	176	607	416	683	365	266	791	417	738	533
Sequoia Kings Pack Train	4	29	41	91	389	406	0	0	0	0
Three-Corner-Round/ Kelley	420	110	0	90	0	0	0	90	0	0
Trailhead & Co. (Llamas)	0	185	92	85	55	0	0	0	0	0
Windrider Llama Treks	0	0	0	36	0	0	0	0	0	0
Wolverton Pack Station	0	0	0	0	0	0	0	0	0	0
TOTAL	2648	3467	1806	3624	3608	2746	5328	4200	6112	6619

Types of Stock. Horses and mules have remained the primary type of stock used in 2000, while there was a drop in llama use relative to the previous three years.

	Horses/Mules			Burros			Llamas		
	Stock	Nights	%	Stock	Nights	%	Stock	Nights	%
2000n		6376	91.4		500	7.2		95	1.4
1999n		7,370	94.7		189	2.4		221	2.8
1998w		4,572	91.8		143	2.9		261	5.3
1997n		8,469	93.1		141	1.5		491	5.4
1996n		6,641	99.7		0	0		67	0.3
1995w		5,279	99.2		36	0.6		10	.002
1994d		9,120	98.5		257	1.1		125	0.4
1993w		7,427	95.0		212	2.7		179	2.3
1992d		10,808	97.3		222	2.0		77	0.7
1991n		11,002	98.2		171	1.5		29	0.2
1990d		12,485	96.8		354	2.7		56	0.4

Monthly Use and Percentage of Entire Season, May-October

	May		June		July		August		Sept.		Oct.	
	Nights	%	Nights	%								
2000n	0	0	1134	16.3	2005	28.8	2492	35.7	1240	17.8	100	1.4
1999n	0	0	663	8.5	2133	27.4	3243	41.7	1537	19.8	204	2.6
1998w	0	0	67	1.3	508	10.2	2762	55.5	1439	28.9	64	1.3
1997n	8	0.08	574	6.3	2012	22.1	3739	41.1	1750	19.2	257	2.8
1996n	0	0	351	5.2	1749	26.1	2929	44.0	1431	21.3	248	3.7
1995w	0	0	0	0	312	4.7	2565	38.5	2135	32.1	311	4.7
1994d	6	0.02	647	6.8	2691	28.3	4348	45.8	1766	18.6	44	0.5
1993w	0	0	110	1.4	1109	14.2	4103	52.5	2271	29.0	225	2.9
1992d	3	0.03	1175	10.6	3748	33.7	4137	37.2	1911	17.2	133	1.2
1991n	7	0.1	706	6.3	3581	31.9	4860	43.4	1755	15.7	293	2.6
1990d	39	0.3	1019	7.9	4017	31.2	5645	43.8	1739	13.5	33	0.3

Number of Areas Receiving Use. The number of areas used may be used as an indication of the dispersion of grazing. Variation in the number of areas used, however, may also reflect differences in reporting. Use was reported for a total of 115 forage areas in 2000, compared to 92 in 1999 (a list showing the number of commercial, private, and administrative stock grazing nights for each forage area is presented in Appendix 2). **Commercial** users reported grazing in a total of 73 areas, **private** parties in 57 areas, and **administrative** users in 55 areas.

The number of forage areas utilized by user group for the past eleven years:

	<u>Commercial</u>	<u>Private</u>	<u>Administrative</u>	<u>Overall</u>
2000n	73	57	55	115
1999n	63	31	46	92
1998w	52	43	35	93
1997n	73	92	44	135
1996n	91	27	33	107
1995w	60	62	17	96
1994d	105	76	37	139
1993w	93	66	35	120
1992d	87	59	37	117
1991n	87	69	34	117
1990d	97	82	52	136

Areas of High Use. Based on reported stock nights, the following forage areas received heavy use in 2000. In previous years, heavy use was defined as use exceeding 75% of the estimated carrying capacity of a meadow. Until the system of estimating carrying capacity of these meadows is further developed and refined, heavy use will be defined based solely on the amount of use an area receives. Note that forage areas differ in their ability to withstand use and thus may be heavily used but not overgrazed. These meadows should, however, be watched closely for signs of deterioration.

The **ten** areas most heavily used (total number of stock nights) in 2000 by **each** user group (commercial, private, and administrative) are presented in the following three tables. The fourth table shows the twenty five forage areas that received the heaviest use overall (by all user groups combined).

Number of commercial stock nights in the ten areas receiving the heaviest commercial use in 2000.

Meadow		2000	1999	1998	1997	1996	1995	1994	1993	1992
33-1	Evolution Meadow	161	167	178	187	220	128	168	176	282
66-3	Junction Meadow	142	58	40	155	20	255	226	173	130
80-3	Tyndall Creek Meadows	134	144	20	128	58	64	123	38	193
90-10	South Fork Meadow	122	60	0	20	193	38	261	33	216
83-4	Upper Crabtree Meadow	111	229	0	273	100	71	143	94	235
67-1	East Lake Meadow	106	101	125	156	129	23	16	70	181
84-3	Lower Rock Creek Meadows	100	0	0	9	52	47	0	7	0
90-11	South Fork Pasture	100	84	0	80	72	0	24	13	0
39-3	Little Pete Meadow	89	38	4	15	7	57	14	20	109
72-8	Sugarloaf Meadow	72	20	0	43	27	3	25	68	26

Number of private stock nights in the ten areas receiving the heaviest private use in 2000.

Meadow		2000	1999	1998	1997	1996	1995	1994	1993	1992
70-4	Cement Table Meadow	145	34	32	14	28	12	15	48	44
69-5.1	Scaffold Mdw. Tourist Pasture	139	139	76	46	233	48	142	71	73
72-8	Sugarloaf Meadow	122	207	85	148	98	105	49	115	141
83-5	Lower Crabtree Meadow	56	38	73	21	0	10	0	24	50
86-2	Upper Funston Meadow	48	63	13	36	32	78	70	25	65
70-6	Grand Palace Hotel	41	9	4	0	0	0	10	12	68
71-3.1	Lower Ranger Meadow	40	87	0	10	0	0	18	0	0
85-10	Nathan's Meadow	32	0	0	0	3	0	0	4	16
70-1.1	Grasshopper Camp	27	0	18	0	0	0	0	0	6
71-2	Grave Meadow	25	21	45	0	125	110	0	16	64

Number of administrative stock nights in the ten areas receiving the heaviest administrative use in 2000.

Meadow		2000	1999	1998	1997	1996	1995	1994	1993	1992
86-7	Lewis Camp Large Pasture	551	492	383	491	296	122	390	400	513
90-5.2	Hockett Pasture	308	98	100	169	160	402	0	279	136
79-4	Lower Kern-Kaweah River	228	0	0	0	0	0	0	0	0
51-1	Simpson Meadow	199	0	50	54	112	16	90	212	46
69-5.1	Scaffold Meadow Tourist Pasture	189	163	115	165	170	193	56	71	10
87-4	Lower Big Arroyo	152	0	0	0	0	0	0	5	73
83-8	Sandy Meadow	144	108	143	176	168	0	0	0	0
90-13	Slim's Meadow	138	0	110	0	0	0	0	0	14
86-8	Kern Station Small Pasture	102	92	66	88	46	32	72	40	84
89-3	Lower Lost Canyon Meadows	100	0	0	99	0	0	66	130	60

Of the ten meadows receiving the most commercial use in 2000, Evolution Meadow has consistently been on the list of most popular meadows among commercial users in nine of the past ten years. Junction Meadow and East Lake Meadow each received significant use in six of the last ten years, while Upper Crabtree Meadow and Tyndall Creek Meadows received significant use in five of the past ten years. South Fork Meadow and South Fork Pasture each received use in four of the past ten years. Increased commercial use of Lower Rock Creek, Little Pete, and Sugarloaf Meadows represent a shift from use patterns of previous years.

Of the ten meadows receiving the most private use in 2000, Sugarloaf Meadow and Scaffold Meadow have consistently been on the list of most popular meadows among private users in each of the past ten years. Upper Funston Meadow appeared on this list in seven out of ten years. Four meadows (Cement Table, Grave, Lower Ranger, and Lower Crabtree Meadow) were listed among the ten most heavily used by private packers during two to five of the past ten years. Grand Palace Hotel, Nathan's Meadow and Grasshopper Camp were not among the ten meadows most heavily used by private packers during any of the previous nine years.

Of the ten meadows receiving heavy administrative use in 2000, Lewis Camp Large Pasture appeared on this list in each of the past ten years. Scaffold Meadow Tourist Pasture and Hockett Pasture have each ranked among the top ten meadows used by administrative packers in seven of the past ten years, while Sandy Meadow appeared in five of the past ten years. Kern Station Small Pasture has shown a steady increase in administrative use over the past four years, while use of Lower Lost Canyo, Simpson Meadow and Slim's Meadow has been more episodic. Use of Lower Kern-Kaweah River and Lower Big Arroyo represent a shift to areas that had received little to no administrative use during the previous seven years.

The 25 most heavily used areas in 2000 for commercial, private and administrative use combined.

Meadow		2000	1999	1998	1997	1996	1995	1994	1993	1992	1991
86-7	Lewis Camp Large Pasture	584	805	441	633	340	218	418	418	585	442
69-5.1	Scaffold Mdw Tourist Pasture	354	401	191	313	526	248	392	297	149	253
90-5.2	Hockett Pasture	308	98	100	169	160	402	0	279	136	299
51-1	Simpson Meadow	265	137	50	81	112	45	256	344	348	291
79-4	Lower Kern-Kaweah River	228	0	0	0	0	0	0	0	0	0
72-8	Sugarloaf Meadow	200	230	85	191	125	111	74	183	167	169
66-3	Junction Meadow	178	64	96	228	20	104.8	229	204	130	145
70-4	Cement Table Meadow	172	34	32	14	35	36	90	107	182	79
33-1	Evolution Meadow	167	176	178	187	220	255	168	370	698	181
87-4	Lower Big Arroyo	162	0	10	4	0	0	4	5	92	44
83-5	Lower Crabtree Meadow	156	71	145	147	139	98	6	82	136	183
80-3	Tyndall Creek Meadows	149	286	89	215	118	50	214	108	273	470
83-8	Sandy Meadow	148	108	143	180	195	0	0	17	0	0
85-10	Nathan's Meadow	147	55	84	39	57	0	168	87	259	269
90-10	South Fork Meadow	140	60	30	122	288	145	450	109	303	359
90-13	Slim's Meadow	138	0	110	0	0	0	0	0	14	0
28-3	Cony Camp	136	3	8	37	53	70	11	46	24	136
83-4	Upper Crabtree Meadow	129	244	12	325	100	23	150	118	282	276
39-3	Little Pete Meadow	129	180	4	15	7	3	23	97	109	152
86-8	Kern Station Small Pasture	106	101	80	130	46	32	72	46	87	0
67-1	East Lake Meadow	106	101	137	170	129	91	62	82	181	181
84-3	Lower Rock Creek Meadows	100	0	0	50	52	12	34	7	0	0
77-5	Redwood Meadow	100	116	40	17	0	8	81	67	90	55
89-3	Lower Lost Canyon Mdws	100	0	0	99	0	0	71	130	60	0
90-11	South Fork Pasture	100	84	0	158	72	57	24	21	70	180

Discussion

Reported recreational and administrative stock use during the summer of 2000 totaled **6,971 stock nights**, or 8,253 animal unit nights. This represents a decrease of 11% compared to 1999, which had a total of 7,780 stock nights reported. Relative to 1999, reported commercial use decreased by 25%, while reported private use increased by 6%. The decline in commercial use came as somewhat of a surprise, given that conditions were conducive to early access to the mountains. Administrative use decreased by 2%. Reported use of supplemental feed in lieu of grazing increased markedly (over 2.5 times) among all user groups relative to 1999, but remained slightly below reported use of supplemental feed in 1998. Horses and mules remained the primary type of stock used, accounting for over 90% of total use. Llama use dropped to less than 50% of that reported in 1999. In contrast, burro use increased significantly over the previous ten years, accounting for over 7% of total use.

Administrative use continued to be focused on meadows adjacent to stock supported ranger stations (Roaring River, Hockett and Kern) and those areas serving as the foci for trail crews during the season. Lewis Camp Large Pasture and Hockett Pasture continued to receive the greatest amount of administrative stock use, while administrative use of Lower Kern-Kaweah River, Lower Big Arroyo, and Slim's Meadow represented significant departures from areas normally used by park packers over the past ten years. Although trail crew use decreased slightly in 2000 relative to 1999, it remains significantly higher than use reported during the years 1993-1998.

Data management. Lack of response and/or a mechanism that elicits a response from private stock users remains a problem. Although the reply rate seemed to be improving over the years, there was continued significant delinquency in 2000, and the time required to pursue each case is simply not available. During 2000, trailhead personnel were asked to indicate on each permit whether it was being issued to a commercial or private stock group; this improved our ability to identify private users and thus limit the number of redundant information requests sent out to clients of commercial packers. This practice will continue in 2001. Commercial packers were also required to include the name of the client who received the permit so that we can better correlate field observations with reported use.

Although most commercial pack stations submitted their annual reports after a single warning letter was sent, delayed IBP reports remain a significant factor in the delayed preparation date of this summary.

As in previous years, we found that many U.S. Forest Service (USFS) wilderness permit issuing stations are not distributing SEKI stock-use cards to packers entering the Parks from USFS trailheads. As a result, some private packers are unaware of the requirement or procedures for reporting their stock use. Backcountry and trailhead rangers are asked to continue to use stock use observation forms, which are invaluable for verifying use reports and gaining a more realistic estimate of actual use for specific forage areas.

Acknowledgements. We wish to thank all of the stock users who took the time to send in their reporting forms this year, and also the backcountry rangers who kept track of stock use nights in their areas. We also appreciate the additional effort made by trailhead rangers to annotate permits for us, and by the wilderness office staff who set aside packstock related permits for us.

Appendix 1. Samples of stock use reporting forms used during 2000; the small card is distributed to private parties with their wilderness permit, and is stamped and addressed for ease of return.

Appendix 2: Reported Stock Use by Meadow Forage Area

		2000	1999	1998	1997	1996	1995	1994	1993	1992	1991
28-1	Piute Creek	0-0-0 0	0-3-0 3	0-0-0 0	0-0-0 0	13-0-0 13	0-0-0 0	0-0-0 0	9-0-0 9	4-0-0 4	0-0-0 0
28-2	Aspen Meadow	0-0-0 0	28-0-0 28	50-0-0 50	11-0-0 11	12-0-0 12	0-0-0 0	2-0-0 2	0-0-0 0	0-0-0 0	0-0-0 0
28-3	Cony Camp	36-4-96 136	3-0-0 3	8-0-0 8	16-0-21 37	53-0-0 53	70-0-0 70	11-0-0 11	44-2-0 46	24-0-0 24	34-2-100 136
28-4	Franklin-Montgomery Mdw	9-0-0 9	35-0-0 35	11-0-0 11	8-0-0 8	15-0-0 15	8-0-0 8	16-0-0 16	34-0-0 34	33-0-0 33	26-0-40 66
28-6	Hell-For-Sure Jct Mdw	3-0-0 3	40-0-0 40	19-0-0 19	12-0-0 12	9-0-0 9	0-0-0 0	10-0-0 10	32-0-0 32	8-0-0 8	2-0-0 2
28-7	Upper Goddard Cyn	0-0-0 0	0-0-0 0	2-0-0 2	30-3-0 33	0-0-0 0	0-0-0 0	4-0-0 4	0-0-0 0	7-0-0 7	6-0-0 6
33-1	Evolution Meadow	161-6-0 167	167-9-0 176	178-0-0 178	187-0-0 187	220-0-0 220	255-0-0 255	168-0-0 168	176-2-192 370	282-0-416 698	149-2-30 181
33-2	McClure Meadow	72-10-12 94	73-6-15 94	19-0-0 19	53-3-0 84	22-0-0 22	0-0-0 0	22-0-0 22	38-0-0 38	94-0-0 94	73-4-46 123
33-3	Colby Meadow	48-3-0 51	39-0-10 49	13-0-0 13	65-0-0 65	40-0-0 40	58-12-0 70	71-0-0 71	15-0-0 15	60-0-0 60	48-0-296 344
33-4	Darwin Meadow	14-0-14 28	37-10-72 119	8-3-0 11	47-0-0 47	34-0-0 34	1-0-0 1	38-9-0 47	7-0-0 7	42-7-0 49	0-0-0 0
33-5	Lake 11,106	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
33-6	Darwin Bench	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	1-0-0 1
33-8	McGee Canyon	0-0-0 0	8-0-0 8	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	6-0-0 6	0-0-0 0	42-0-0 42	0-0-0 0
33-9	Emerald Lakes	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
34-1	Evolution Lake	0-0-0 0	12-0-0 12	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	10-0-0 10	0-0-0 0	6-0-0 6	1-5-0 6
34-2	Sapphire Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	5-0-0 5	0-0-0 0	0-0-0 0	0-2-0 2
34-3	Huxley Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
38-1	Upper Blue Canyon	0-0-0 0	0-0-0 0	0-0-0 0	0-0-80 80	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
38-2	Blue Canyon Meadow	0-0-0 0	5-0-0 5	0-0-0 0	0-0-0 0	0-0-0 0	30-0-0 30	0-0-14 14	10-0-0 10	8-33-5 46	16-6-0 22
38-3	Lower Blue Canyon	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	24-0-0 24	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
39-1	Upper LeConte Canyon	0-4-0 4	22-0-0 22	0-0-0 0	0-3-0 3	0-0-0 0	0-12-0 12	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
39-2	Big Pete Meadow	13-0-7 20	29-0-0 29	36-0-0 36	141-9-0 150	210-0-0 210	12-0-0 12	42-3-0 45	20-0-0 20	55-0-13 68	24-5-62 91
39-3	Little Pete Meadow	89-2-38 129	38-0-142 180	4-0-0 4	15-0-0 15	7-0-0 7	3-0-0 3	14-9-0 23	20-0-77 97	109-0-0 109	92-0-60 152
39-4	Ladder Camp	20-0-0 20	0-0-0 0	0-0-0 0	0-0-0 0	21-0-0 21	84-0-0 84	0-0-0 0	0-0-0 0	32-0-0 32	0-0-0 0
39-5	Grouse Meadow	9-10-5 24	22-0-87 109	4-0-0 4	84-3-198 285	25-0-96 121	0-0-0 0	12-0-55 67	0-0-0 0	59-0-24 83	29-0-0 29
39-6	Palisade Creek Junction	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
39-7	Stillwater Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
39-8	Deer Meadow	9-8-9 26	33-0-24 57	0-0-0 0	59-0-0 59	31-0-0 31	24-12-0 36	14-3-22 39	19-0-99 118	48-0-10 58	30-0-0 30
42-1	Dusy Creek	5-0-0 5	24-0-12 36	0-0-0 0	28-3-0 31	0-0-0 0	5-0-0 5	0-0-0 0	38-0-0 38	0-0-0 0	0-0-0 0
42-2	Lower Dusy Basin	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
42-3	Upper Dusy Basin	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
42-4	Rainbow Lakes	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
45-1	Palisade Lakes	0-4-0 4	22-0-0 22	0-0-0 0	28-3-0 31	15-0-0 15	0-0-0 0	0-0-0 0	19-0-0 19	0-0-0 0	12-0-0 12
46-1	Upper Basin Meadows	48-0-0 48	39-0-0 39	0-0-0 0	0-3-0 3	5-0-0 5	0-0-0 0	0-0-0 0	14-0-0 14	0-0-20 20	0-0-0 0
46-2	South Fork Kings River	0-4-16 20	0-0-12 12	0-0-22 22	26-0-11 37	53-0-24 77	0-12-0 12	25-3-77 105	42-0-0 42	124-0-0 124	15-0-0 15
46-3	Bench Lake/JMT Jct.	36-2-0 38	0-0-14 14	4-0-0 4	0-0-0 0	35-4-0 39	0-0-0 0	0-0-0 0	84-0-0 84	0-0-0 0	0-0-0 0
46-4	Bench Lake	0-4-0 4	49-0-0 49	0-0-0 0	98-0-0 98	0-0-0 0	0-0-0 0	43-0-0 43	0-0-0 0	0-0-0 0	0-0-0 0
46-5	Taboose Pass Area	0-0-0 0	0-0-0 0	6-0-0 6	0-0-0 0	0-0-0 0	16-0-0 16	0-0-0 0	9-0-0 9	0-0-0 0	0-0-0 0
46-6	Lake Marjorie	9-0-0 9	0-0-0 0	0-0-0 0	0-6-0 6	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
47-1	Cartridge Creek	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
47-2	Lake Basin	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
47-3	Marion Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
47-4	Cataract Creek	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
47-5	Mdw SW of Bench Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
47-8	Muro Blanco	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
51-1	Simpson Meadow	66-0-199 265	122-15-0 137	0-0-50 50	27-0-54 81	0-0-112 112	5-24-16 45	154-12-90 256	104-28-212 344	104-198-46 348	201-0-90 291
51-2	Tehipite Valley	0-8-0 8	12-0-0 12	0-0-0 0	14-0-0 14	16-0-8 24	0-0-0 0	5-0-0 5	76-0-0 76	11-0-0 11	16-0-0 16

Appendix 2: Reported Stock Use by Meadow Forage Area

		2000	1999	1998	1997	1996	1995	1994	1993	1992	1991
51-3	Gnat Meadow	8-0-0 8	0-0-0 0	0-0-0 0	0-0-42 42	0-0-0 0	18-0-0 18	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
51-4	Hay Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
52-1	Volcanic Lakes Basin	60-0-0 60	0-0-0 0	0-0-0 0	0-2-0 2	0-0-0 0	60-0-0 60	13-18-0 31	0-0-0 0	16-0-0 16	11-0-0 11
52-13	Jerkey Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
52-14	Upper end of Hotel Creek	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
52-15	Hotel Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
52-2	Kennedy Canyon Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-3-0 3	0-0-0 0	0-0-0 0	13-0-0 13	0-0-0 0	0-0-0 0	0-2-0 2
52-3	Upper Kennedy Canyon Mead	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
52-4	Kennedy Pass Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
52-4	West Kennedy Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
52-6	Frypan Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-12 12	0-0-0 0	0-2-0 2
53-1	Horseshoe Meadows	0-0-0 0	0-0-219 219	0-0-0 0	0-0-0 0	45-0-0 45	0-0-0 0	0-0-0 0	0-0-0 0	0-0-13 13	0-0-0 0
53-2	Horseshoe Lakes Turnoff	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
53-3	State Lakes Area	8-0-0 8	0-0-0 0	0-0-0 0	48-61-0 109	64-48-0 112	67-4-0 71	137-0-0 137	28-18-0 46	48-0-0 48	67-2-0 69
53-4.1	Dougherty Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	40-0-0 40	0-0-0 0	0-0-0 0	0-0-0 0
53-4.2	Glacier Valley Meadows	30-0-0 30	0-0-0 0	0-14-26 40	0-6-0 6	153-0-62 215	33-0-0 33	0-35-0 35	16-3-40 59	78-9-0 87	159-0-0 159
53-5	Fallen Moon Meadow	0-0-0 0	89-0-18 107	0-0-40 40	7-24-9 40	4-0-0 4	44-4-54 102	49-5-15 69	20-0-0 20	147-0-0 147	0-0-0 0
53-6	Volcanic Trail Junction	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-2-0 2	
53-7	Shorty's Meadow	40-4-0 44	138-10-0 148	6-0-0 6	59-0-0 59	47-0-0 47	144-0-0 144	36-3-16 55	39-7-20 66	110-52-0 162	117-0-20 137
53-8	Granite Pass Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-16-0 16	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
54-1	Granite Lake	0-0-0 0	0-0-0 0	8-0-25 33	0-2-0 2	0-6-0 6	0-0-0 0	55-28-0 83	0-0-0 0	0-0-0 0	0-4-0 4
54-2	Granite Basin Meadows	6-12-2 20	23-0-0 23	0-0-0 0	64-6-8 78	44-0-0 44	46-27-10 83	50-30-110 190	220-7-0 227	53-0-122 175	15-0-53 68
54-3	Grouse Lake	0-0-0 0	27-0-0 27	0-0-0 0	0-2-0 2	0-0-0 0	0-0-0 0	0-4-0 4	0-0-0 0	0-0-0 0	0-0-0 0
54-4	Halfmoon Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
54-5.1	Lower Tent Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-5-0 5	0-0-0 0	0-0-0 0	0-0-0 0
54-5.2	Upper Tent Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
55-1	Woods Creek Jct Mdw	25-0-20 45	80-0-0 80	0-0-0 0	54-4-0 58	10-0-12 22	0-0-15 15	9-0-0 9	0-0-0 0	0-0-0 0	0-0-0 0
55-2	U. Paradise Valley Mdw	0-0-0 0	0-0-0 0	5-0-0 5	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
55-3	L. Paradise Valley Mdw	0-4-0 4	0-0-0 0	0-0-0 0	0-8-0 8	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
56-1	Mdws S. of Pinchot Pass	57-0-0 57	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	20-0-0 20	0-0-0 0	0-0-0 0
56-2	Twin Lakes Area	7-4-0 11	0-0-0 0	0-0-134 134	18-3-0 21	13-1-0 14	6-4-0 10	78-6-0 84	78-0-0 78	0-0-0 0	0-0-0 0
56-3	White Fork Camp	0-0-0 0	0-0-0 0	68-0-0 68	0-0-0 0	0-0-9 9	0-12-0 12	0-0-0 0	40-0-0 40	55-0-0 55	0-0-0 0
57-1	Woods Lake Meadows	0-0-0 0	20-0-0 20	27-0-0 27	15-0-0 15	13-0-0 13	6-0-0 6	4-0-0 4	50-0-0 50	0-0-0 0	40-0-0 40
58-1	Castle Domes Meadow	0-4-0 4	78-0-0 78	108-120-0 228	0-0-17 17	15-2-12 29	0-1-0 1	107-27-11 145	65-0-0 65	58-0-10 68	0-4-0 4
58-2	Woods Creek Crossing	0-0-0 0	0-0-44 44	44-24-40 108	0-0-68 68	8-0-0 8	0-0-0 0	60-0-0 60	106-0-20 126	34-30-4 68	192-16-0 208
58-3	Baxter Creek Drift Fence	43-0-0 43	49-0-14 63	76-0-0 76	86-5-3 94	57-0-0 57	0-0-0 0	75-3-0 78	62-4-0 66	31-0-0 31	15-0-0 15
59-1	Baxter Creek	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	5-0-0 5	0-0-0 0	3-0-0 3	0-0-0 0	0-0-0 0	0-0-0 0
59-2	Baxter Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
60-1	Gardiner Basin	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
61-1	Cotter Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	18-0-0 18	0-0-0 0	0-0-0 0	7-0-0 7	0-0-0 0	0-0-0 0
61-2	Fjord Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	7-0-0 7	0-0-0 0	0-0-0 0
61-3	Lower 60 Lakes Basin Mdws	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	66-0-0 66	0-0-0 0	6-0-0 6	46-0-0 46
62-1	Rae Lakes Basin Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-2-0 2	0-0-0 0	0-0-0 0	5-0-0 5	0-0-0 0	0-0-0 0	10-0-0 10
62-2	Dragon Lake Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	
63-1	Charlotte Creek Meadows	66-0-0 66	60-0-7 67	36-0-0 36	8-16-0 24	36-0-75 111	39-6-0 45	3-3-0 6	49-3-16 68	54-0-0 54	30-0-0 30
63-2	Charlotte Lake Lower Mdw	0-0-7 7	0-0-0 0	24-0-0 24	50-16-0 66	0-0-0 0	0-12-0 12	58-0-0 58	0-0-0 0	0-0-0 0	0-0-0 0
63-3	Charlotte Lake Upper Mdw	0-0-0 0	0-0-0 0	0-0-0 0	0-0-6 6	0-0-0 0	0-15-0 15	14-0-0 14	0-0-0 0	0-0-0 0	0-0-0 0
64-1	Kearsarge Basin Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0

Appendix 2: Reported Stock Use by Meadow Forage Area

		2000	1999	1998	1997	1996	1995	1994	1993	1992	1991
64-2	Bullfrog Lake Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-16-0 16	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
65-1	Vidette Meadow	0-0-0 0	0-0-0 0	29-47-0 76	0-14-0 14	4-0-0 4	0-14-80 94	81-0-0 81	0-0-0 0	0-0-0 0	0-0-0 0
65-2	East Vidette Meadow	12-0-0 12	0-0-0 0	0-0-0 0	23-0-0 23	147-0-0 147	39-0-0 39	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
65-3	Upper Vidette Meadows	58-0-0 58	210-0-0 210	96-6-0 102	8-0-6 14	22-0-0 22	0-0-0 0	15-0-0 15	73-0-0 73	68-8-0 76	330-103-0 433
65-4	Upper Bubbs Creek	50-0-0 50	12-0-0 12	3-0-0 3	17-0-0 17	87-0-0 87	0-0-0 0	0-0-0 0	7-0-0 7	125-0-0 125	0-14-0 14
65-5	Center Basin	0-0-0 0	0-0-0 0	0-0-0 0	0-10-0 10	0-0-0 0	0-0-0 0	0-10-0 10	0-0-0 0	0-0-0 0	0-0-0 0
66-1.1	Sphinx Creek Junction	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-15-0 15	0-0-0 0	0-0-0 0	0-4-0 4	0-0-0 0
66-1.2	Angleworm Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
66-2	Charlotte Creek Confluenc	0-0-0 0	0-0-0 0	52-0-0 52	0-0-3 3	0-0-0 0	0-2-0 2	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
66-3	Junction Meadow	142-21-15 178	58-0-6 64	40-53-3 96	155-51-22 228	20-0-0 20	64-41-0 105	226-3-0 229	173-22-9 204	130-0-0 130	101-6-38 145
67-1	East Lake Meadow	106-0-0 106	101-0-0 101	125-12-0 137	156-11-3 170	129-0-0 129	47-44-0 91	16-46-0 62	70-12-0 82	181-0-0 181	181-0-0 181
67-2	Ouzel Meadow	0-0-0 0	0-0-0 0	107-0-0 107	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	18-0-0 18	0-0-0 0
67-3	Reflection Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-1-0 1
68-1	Sphinx Creek Crossing	0-2-0 2	0-0-0 0	0-12-0 12	17-0-0 17	4-0-0 4	60-0-0 60	46-0-0 46	0-0-0 0	0-1-0 1	32-0-0 32
69-2	West Side Roaring River	0-14-13 27	0-3-14 17	30-4-51 85	56-97-0 153	16-18-0 34	24-32-0 56	0-0-0 0	0-30-0 30	0-0-0 0	0-31-36 67
69-3	JR Pasture	0-0-49 49	0-0-47 47	0-0-23 23	0-24-18 42	5-0-20 25	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-10 10
69-4	Lackey Pasture	0-0-47 47	23-0-18 41	0-9-48 57	0-0-4 4	0-8-40 48	0-0-0 0	0-15-0 15	0-0-0 0	0-0-0 0	0-0-0 0
69-5.1	Scaffold Mdw Tourist Past	26-139-189 354	99-139-163 401	0-76-115 191	102-46-165 313	123-233-170 526	7-48-193 248	194-142-56 392	155-71-71 297	66-73-10 149	117-88-48 253
69-5.2	Grasshopper Meadow	30-0-12 42	0-0-0 0	0-0-0 0	0-14-2 16	0-0-0 0	7-0-0 7	0-0-0 0	20-0-0 20	0-0-0 0	0-0-0 0
69-6.1	Moraine Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
69-6.2	Moraine Stringers	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
69-6.3	Metrohoy Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
70-1.1	Grasshopper Camp	0-27-0 27	0-0-0 0	0-18-3 21	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-6-0 6	9-0-0 9
70-1.2	Brewer Stringers	0-0-0 0	0-0-0 0	0-0-12 12	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
70-2	Barton Meadow and Stringe	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
70-3	False Cement Table Meadow	0-20-6 26	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	33-2-0 35	0-0-0 0	0-0-0 0
70-4	Cement Table Meadow	18-145-9 172	0-34-0 34	0-32-0 32	0-14-0 14	7-28-0 35	24-12-0 36	75-15-0 90	59-48-0 107	138-44-0 182	56-23-0 79
70-5	Big Wet Meadow	6-0-15 21	62-0-21 83	0-6-0 6	0-0-17 17	4-0-0 4	0-18-0 18	29-0-0 29	0-18-0 18	139-0-0 139	113-2-9 124
70-6	Grand Palace Hotel	0-41-10 51	0-9-35 44	0-4-0 4	0-0-0 0	40-0-0 40	0-0-0 0	18-10-0 28	0-12-0 12	0-68-0 68	30-0-0 30
70-7	Colby Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-8 8	0-4-0 4	0-0-0 0	20-0-0 20
71-1	Austin Camp Meadows	0-24-33 57	0-0-0 0	0-12-0 12	0-16-0 16	0-48-0 48	0-0-0 0	80-0-0 80	48-86-0 134	120-0-0 120	70-10-0 80
71-2	Grave Meadow	42-25-0 67	0-21-0 21	0-48-0 48	0-0-0 0	30-125-0 155	6-110-0 116	24-0-0 24	60-16-0 76	39-64-0 103	121-24-0 145
71-3.1	Lower Ranger Meadow	0-40-49 89	28-87-6 121	0-0-0 0	0-10-0 10	0-0-0 0	0-0-0 0	18-18-0 36	0-0-0 0	0-0-0 0	0-0-0 0
71-3.2	Middle Ranger Meadow	0-0-3 3	0-0-3 3	0-18-6 24	0-1-0 1	33-0-0 33	0-0-0 0	32-0-0 32	0-0-0 0	0-0-0 0	0-0-0 0
71-4	Upper Ranger Meadow	0-0-3 3	0-0-0 0	0-0-0 0	0-86-65 151	0-0-0 0	0-0-0 0	7-10-160 177	0-0-0 0	0-12-0 12	88-0-0 88
71-5	Upper Deadman Canyon	0-0-0 0	0-0-0 0	0-0-0 0	4-0-0 4	0-0-0 0	0-0-0 0	28-0-40 68	0-0-0 0	0-0-0 0	0-0-0 0
72-1	Pond Meadow	0-21-0 21	0-0-0 0	0-23-0 23	4-1-0 5	0-70-0 70	34-0-0 34	50-144-0 194	129-75-0 204	91-0-0 91	5-26-0 31
72-10	Sugarloaf Creek Camp	0-21-0 21	0-0-0 0	0-3-0 3	4-1-0 5	0-0-0 0	34-0-0 34	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-11	Honeymoon Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-12	Boggy Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-13	Crowley Canyon	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-14	Box Canyon	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-15	Ellis Meadow Area	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-16	Paradise Meadow Area	0-0-0 0	0-0-0 0	0-8-0 8	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-17	West Fork Ferguson Ck	0-0-0 0	0-0-0 0	0-12-0 12	0-0-0 0	0-0-0 0	0-0-0 0	50-144-0 194	100-36-0 136	91-0-0 91	5-0-0 5
72-18	Ferguson Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-70-0 70	0-0-0 0	0-0-0 0	11-29-0 40	0-0-0 0	0-26-0 26
72-19	Long Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	18-10-0 28	0-0-0 0	0-0-0 0

Appendix 2: Reported Stock Use by Meadow Forage Area

		2000	1999	1998	1997	1996	1995	1994	1993	1992	1991
72-2	Catch'em Meadow	0-0-0 0	20-0-0 20	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-20	Lewistall Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-21	Little Jack Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-22	Scenic Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-3	Willow Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-10-0 10	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-4	Mitchell Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-4-0 4	0-0-0 0	0-0-0 0	0-0-0 0
72-5	Quartz Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-6	Williams Meadow	0-0-0 0	0-0-0 0	0-0-0 0	4-0-0 4	0-12-0 12	23-3-0 26	0-12-0 12	0-36-0 36	0-6-0 6	
72-7	Comanche Meadow	0-0-0 0	0-6-0 6	0-6-0 6	5-36-0 41	4-0-0 4	6-10-0 16	26-10-0 36	1-0-0 1	0-4-0 4	0-0-0 0
72-8	Sugarloaf Meadow	72-122-6 200	20-207-3 230	0-85-0 85	43-148-0 191	27-98-0 125	6-105-0 111	25-49-0 74	68-115-0 183	26-141-0 167	100-69-0 169
72-9	Little Sugarloaf Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	17-0-0 17	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
73-1	Sheep Camp Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	7-0-0 7	0-8-0 8	0-0-0 0	0-0-0 0
73-2	Seville Lake	0-0-0 0	20-0-0 20	0-4-0 4	18-32-0 50	0-0-0 0	0-9-0 9	0-2-0 2	0-0-0 0	0-0-0 0	0-0-0 0
73-3	Lovelace Cabin Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	14-0-0 14	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
73-4	Lost Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-73-0 73	0-32-0 32	0-6-0 6	34-24-0 58	6-8-0 14	0-5-0 5	0-6-0 6
73-5	Ranger & Beville Lakes	0-10-0 10	0-0-0 0	0-0-0 0	28-20-0 48	0-0-0 0	0-8-0 8	27-0-21 48	0-6-0 6	0-0-0 0	0-0-0 0
74-1	Twin Lakes	0-0-0 0	0-0-0 0	0-0-0 0	16-12-0 28	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
74-2	Pattee Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
74-3	Clover Creek	0-0-0 0	0-0-0 0	0-0-0 0	0-12-0 12	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-8-0 8	0-8-0 8
74-4	Cahoon Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
74-5	Silliman Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
74-6	Willow Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
75-1	Lone Pine Meadows	0-0-0 0	0-0-0 0	0-0-0 0	4-18-0 22	0-0-0 0	0-0-0 0	110-0-21 131	22-28-0 50	13-0-8 21	0-0-0 0
75-2	Tamarack Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-19-0 19	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	11-0-0 11	0-0-0 0
75-3	Table Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
76-1	Emerald Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
76-2	Pear Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
77-1	Bearpaw Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-4-0 4	11-0-0 11	0-2-0 2	0-0-0 0	0-16-0 16	0-0-0 0	0-6-0 6
77-2	Little Bearpaw Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	10-0-0 10	0-0-0 0	0-0-0 0	0-0-0 0
77-3	River Valley	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	10-0-0 10	21-0-0 21	0-0-0 0	0-0-0 0
77-4	Granite Ck, Strawberry Md	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	15-0-0 15	0-0-0 0
77-5	Redwood Meadow	0-0-100 100	0-12-104 116	0-0-40 40	0-1-16 17	0-0-0 0	0-8-0 8	28-20-33 81	25-10-32 67	38-0-52 90	40-0-15 55
77-6	Cliff Creek	0-0-0 0	0-0-0 0	0-0-17 17	0-35-0 35	0-0-0 0	0-0-0 0	0-2-0 2	0-6-0 6	0-0-0 0	0-2-0 2
77-7	Pinto Lake Meadow	17-2-12 31	6-0-0 6	0-0-0 0	25-35-0 60	44-0-12 56	65-32-14 111	76-2-21 99	105-21-0 126	161-0-40 201	138-14-0 152
78-1	Hamilton Lakes	0-0-3 3	0-0-0 0	0-0-0 0	0-129-0 129	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
79-1	Cold Springs Camp Area	0-0-72 72	0-0-0 0	0-0-88 88	0-0-0 0	0-0-0 0	0-0-0 0	0-0-132 132	0-0-86 86	0-35-76 111	0-6-97 103
79-2	Milestone Basin	0-0-0 0	0-0-0 0	0-6-0 6	0-5-0 5	0-0-0 0	0-0-0 0	87-14-0 101	0-0-0 0	0-14-0 14	12-19-0 31
79-3	Rockslide Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-6-0 6	0-0-0 0
79-4	Lower Kern-Kaweah River	0-0-228 228	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
79-5	Gallats Lake Meadows	0-0-9 9	0-0-0 0	0-0-0 0	0-12-0 12	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	18-14-18 50
79-6	Upper Kern-Kaweah River	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	39-0-0 39	0-0-0 0	0-0-0 0	0-0-0 0
80-1	Bighorn Plateau Lake Mdw	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
80-2	Tyndall Ck/JMT Frog Ponds	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
80-3	Tyndall Creek Meadows	134-3-12 149	144-22-120 286	20-9-60 89	128-10-77 215	58-0-60 118	38-12-0 50	123-5-86 214	38-4-66 108	193-0-80 273193-33-244 470	
80-4	Sheep Camp Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	70-0-0 70	20-0-0 20	0-0-0 0	0-0-0 0	44-0-0 44	0-0-0 0
80-5.1	Lake South America	0-6-0 6	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-17-0 17	0-3-0 3	28-0-0 28	22-0-0 22
80-5.2	Lake S. Americal Col Mdw	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0

Appendix 2: Reported Stock Use by Meadow Forage Area

		2000	1999	1998	1997	1996	1995	1994	1993	1992	1991
80-6	Kern Headwaters	72-0-0 72	0-0-0 0	0-0-0 0	0-5-0 5	0-0-0 0	60-0-0 60	78-0-0 78	0-0-0 0	0-15-0 15	51-5-0 56
81-1	Wright Creek Drainage	9-0-0 9	24-10-0 34	0-6-0 6	38-0-0 38	0-0-0 0	48-0-0 48	0-14-0 14	0-0-0 0	0-13-0 13	0-0-0 0
81-2.1	Wallace Ck/JMT Jct Mdw	0-0-0 0	0-0-0 0	0-0-0 0	0-10-0 10	0-0-0 0	44-0-0 44	0-0-0 0	0-0-0 0	0-0-0 0	11-0-0 11
81-2.2	Wallace Creek Meadows	0-0-0 0	114-0-0 114	0-0-0 0	0-24-0 24	42-0-0 42	0-0-0 0	112-15-0 127	0-7-0 7	21-0-0 21	0-0-0 0
81-2.3	Wallace Ck Waterfall Mdw	0-0-0 0	5-0-0 5	0-0-0 0	0-0-0 0	40-0-0 40	139-0-0 139	40-0-0 40	40-0-0 40	178-12-0 190	173-7-0 180
81-2.4	Marshy Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	9-0-0 9	0-0-0 0	21-0-0 21	0-0-0 0	0-0-0 0	0-0-0 0
81-2.5	Wallace Ck Closed Mdw	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
82-1	Junction Meadow on the Ke	8-0-0 8	0-7-12 19	0-0-0 0	0-32-77 109	4-6-18 28	0-28-0 28	29-124-6 159	7-0-3 10	47-19-0 66	59-27-0 86
82-2	One mi. < Junction Mdw	0-0-3 3	0-0-2 2	0-0-3 3	0-0-2 2	0-0-6 6	0-0-0 0	0-0-0 0	0-0-0 0	0-0-3 3	0-8-0 8
82-3	Three mi. < Junction Mdw	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
83-1	Guitar Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
83-2	Timberline Lake Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
83-3	Crabtree R.S. Meadows	0-0-0 0	0-0-0 0	5-0-2 7	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-12-0 12	3-10-0 13
83-4	Upper Crabtree Meadow	111-18-0 129	229-15-0 244	0-12-0 12	273-52-0 325	100-0-0 100	23-0-0 23	143-7-0 150	94-24-0 118	235-47-0 282	170-106-0 276
83-5	Crabtree Lakes Meadows	61-56-39 156	11-38-22 71	72-73-0 145	86-21-40 147	103-0-36 139	88-10-0 98	6-0-0 6	58-24-0 82	86-50-0 136	158-25-0 183
83-7	Lower Whitney Creek	0-0-0 0	0-0-0 0	0-16-0 16	0-30-0 30	0-0-0 0	26-30-29 85	50-68-134 252	0-0-88 88	0-0-149 149	40-0-124 164
83-8	Sandy Meadow	4-0-144 148	0-0-108 108	0-0-143 143	0-4-176 180	27-0-168 195	0-0-0 0	14-3-0 17	0-0-0 0	0-0-0 0	0-0-0 0
84-1	Rock Creek R.S. Meadow	0-0-0 0	0-0-0 0	18-0-0 18	0-4-0 4	0-0-0 0	0-0-0 0	15-0-0 15	0-0-0 0	0-0-0 0	0-0-0 0
84-2	Lower Rock Ck Xing Mdw	7-21-0 28	0-9-96 105	37-30-66 133	36-6-68 110	28-0-0 28	167-10-0 177	0-0-0 0	75-7-0 82	39-107-0 146	40-109-0 149
84-3	Lower Rock Creek Meadows	100-0-0 100	0-0-0 0	0-0-0 0	9-41-0 50	52-0-0 52	0-12-0 12	0-34-0 34	7-0-0 7	0-0-0 0	0-0-0 0
84-4	forgotten Canyon Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	7-0-0 7	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
84-5	Guyot Creek Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-4-0 4	0-0-0 0	0-0-0 0	0-0-0 0	25-3-0 28	0-14-0 14	0-0-0 0
84-6	Siberian Outpost	0-0-0 0	0-0-0 0	0-18-0 18	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
85-10	Nathan's Meadow	52-32-63 147	55-0-0 55	18-0-66 84	19-0-20 39	21-3-33 57	0-0-0 0	34-0-134 168	83-4-0 87	163-16-80 259	193-0-76 269
85-2	Miter Basin Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
85-3	Lower Miter Basin Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-7-0 7	0-0-0 0	0-0-0 0	0-7-0 7
85-4	Penned-up Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	17-0-0 17	0-0-0 0	28-3-0 31	59-0-0 59
85-5	Upper Soldier Lake Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
85-6	Lower Soldier Lake Mdws	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
85-7	New Amy Pass Jct Mdws	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-7-0 7	0-0-22 22	0-0-0 0	0-0-0 0
85-8	Lower Rock Creek Lk Mdw	21-0-0 21	8-0-21 29	36-16-0 52	10-0-0 10	0-0-0 0	0-0-0 0	0-0-0 0	77-4-0 81	249-45-0 294	444-7-0 451
85-9	Rock Creek Meadow #2	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	30-0-0 30	0-0-0 0	0-0-0 0	0-0-0 0
86-1	Kern Bridge Camp	8-0-37 45	0-0-168 168	60-3-5 68	0-0-88 88	18-0-94 112	41-54-8 103	14-12-94 120	0-22-50 72	37-4-100 141	36-36-149 221
86-2	Upper Funston Meadow	14-48-10 72	119-63-140 322	0-13-54 67	19-36-15 70	54-32-87 173	67-78-28 173	130-70-23 223	68-25-6 99	124-65-66 255	128-127-115 370
86-3	Big Arroyo Confluence	4-0-0 4	0-0-108 108	0-0-0 0	0-10-0 10	4-0-0 4	0-6-0 6	0-0-0 0	0-4-3 7	0-0-0 0	0-0-0 0
86-4	21" Camp, Rattlesnake Creek	12-18-0 30	0-0-32 32	0-0-2 2	14-0-0 14	16-0-3 19	0-0-0 0	48-0-5 53	0-0-0 0	45-79-0 124	0-5-0 5
86-5	Lower Funston Meadow	28-2-0 30	171-46-0 217	18-20-0 38	238-120-0 358	108-41-0 149	43-18-0 61	24-38-0 62	122-46-0 168	118-77-0 195	194-109-21 324
86-6	Snake Camp, River Pasture	0-18-0 18	126-23-0 149	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-4-0 4	0-16-0 16	48-0-0 48	84-15-0 99
86-7	Lewis Camp Large Pasture	33-0-551 584	222-91-492 805	30-28-383 441	26-116-491 633	29-15-296 340	0-96-122 218	0-28-390 418	7-11-400 418	37-35-513 585	46-0-396 442
86-8	Kern Station Small Pasture	4-0-102 106	0-9-92 101	14-0-66 80	20-22-88 130	0-0-46 46	0-0-32 32	0-0-72 72	0-6-40 46	3-0-84 87	0-0-0 0
87-1	Upper Big Arroyo	14-0-72 86	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-12-0 12	42-18-42 102	3-34-0 37	22-8-0 30	2-2-0 4
87-10	Sky Parlor Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-6-0 6	0-12-0 12	3-7-0 10	0-8-0 8	2-2-0 4
87-2	Little Upper Big Arroyo	7-0-0 7	0-0-0 0	0-0-14 14	0-0-0 0	0-0-0 0	0-0-0 0	0-12-0 12	0-0-0 0	0-0-0 0	0-0-0 0
87-3	Big Arroyo Patrol Cabin	0-0-0 0	0-0-0 0	0-0-24 24	0-0-33 33	0-0-77 77	0-0-0 0	0-4-33 37	3-0-130 133	45-4-80 129	0-0-22 22
87-4	Lower Big Arroyo	10-0-152 162	0-0-0 0	10-0-0 10	0-4-0 4	0-0-0 0	0-0-0 0	0-4-0 4	0-0-5 5	12-7-73 92	0-0-44 44
87-5	Chagoopa Plateau Mdw #1	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
87-6	Chagoopa Plateau Mdw #2	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	7-0-0 7	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0

Appendix 2: Reported Stock Use by Meadow Forage Area

		2000	1999	1998	1997	1996	1995	1994	1993	1992	1991
87-7	Chagoopa Plateau Mdw #3	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-3-0 3	0-0-0 0	0-0-0 0	0-0-0 0
87-8	Chagoopa Plateau Mdw #4	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-8-0 8	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
87-9	Chagoopa Plateau Treehous	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-3 3	0-8-0 8	0-0-0 0
88-1	L. Little 5 Lks (Long Lak	7-0-0 7	0-0-0 0	0-0-0 0	59-3-0 62	48-8-0 56	51-48-0 99	88-0-0 88	75-0-0 75	64-0-0 64	120-0-0 120
88-2	U. Little 5 Lks (R.S. Mdw	0-4-0 4	0-0-0 0	0-0-0 0	0-7-0 7	0-0-0 0	0-0-0 0	0-0-0 0	3-6-0 9	20-0-0 20	40-4-0 44
88-3	Big 5 Lakes Lower Mdw	6-4-0 10	0-0-0 0	0-0-0 0	18-0-0 18	0-0-0 0	0-0-0 0	37-0-0 37	0-0-0 0	0-0-0 0	0-0-0 0
88-4	Big 5 Lakes Upper Mdw	22-0-0 22	0-0-0 0	0-0-0 0	0-0-0 0	14-0-0 14	51-48-0 99	38-0-0 38	0-0-0 0	10-0-0 10	54-36-0 90
88-5	Big 5 Lakes Upper Stringe	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
89-10	Cow Camp	0-8-85 93	4-0-120 124	0-0-0 0	0-0-99 99	0-0-3 3	0-12-0 12	0-0-165 165	57-0-24 81	108-70-10 188	76-5-188 269
89-11	Laurel Creek Basin	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
89-12	Crytes Lake	0-0-0 0	32-0-0 32	0-0-0 0	0-0-0 0	8-0-0 8	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
89-13	Coyote Creek Meadows	0-0-0 0	12-0-0 12	0-0-0 0	0-0-0 0	8-0-0 8	17-0-0 17	12-10-0 22	15-12-0 27	17-0-0 17	0-0-0 0
89-2	Upper Lost Canyon Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-80 80	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	55-0-0 55
89-3	Lower Lost Canyon Mdws	0-0-100 100	0-0-0 0	0-0-0 0	0-0-99 99	0-0-0 0	0-0-0 0	5-0-66 71	0-0-130 130	0-0-60 60	0-0-0 0
89-4	Soda Creek Canyon	11-0-0 11	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
89-5.1	Forester Lake Bench Mdws	22-0-0 22	0-1-0 1	0-0-0 0	0-0-0 0	28-0-0 28	93-0-0 93	139-0-0 139	34-0-0 34	0-0-0 0	14-0-0 14
89-5.2	Forester Lake Meadows	0-2-0 2	0-0-0 0	0-0-0 0	9-69-0 78	0-8-0 8	0-0-0 0	0-76-0 76	0-8-0 8	0-7-0 7	5-0-0 5
89-5.3	Forester Lake Pocket Mdw	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	32-0-0 32	0-0-0 0	0-0-0 0	0-0-0 0
89-6	Upper Rattlesnake Canyon	4-0-3 7	0-1-168 169	0-0-0 0	0-0-0 0	18-0-25 43	0-0-14 14	52-10-3 65	16-0-6 22	21-7-34 62	79-0-6 85
89-7	Shotgun Pass Meadow	6-0-0 6	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-12 12	0-0-0 0	0-0-0 0
89-8	South Rattlesnake Canyon	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	113-0-0 113	0-0-0 0	130-0-0 130	142-0-0 142	179-0-3 182	275-0-0 275
89-9	Middle Rattlesnake Canyon	4-8-48 60	0-0-5 5	10-0-133 143	0-0-4 4	18-16-142 176	52-0-0 52	0-34-6 40	9-0-27 36	127-56-92 275	46-17-0 63
90-1	Horse Creek Meadows	222-22-145 389	144-0-15 159	134-30-0 164	175-288-15 478	265-95-0 360	128-168-7 303	333-268-0 601	134-120-14 268	230-157-32 419	413-241-9 663
90-10	South Fork Meadow	122-18-0 140	60-0-0 60	0-30-0 30	20-102-0 122	193-95-0 288	71-74-0 145	261-189-0 450	33-76-0 109	216-87-0 303	236-123-0 359
90-11	South Fork Pasture	100-0-0 100	84-0-0 84	0-0-0 0	80-78-0 158	72-0-0 72	57-0-0 57	24-0-0 24	13-8-0 21	0-70-0 70	133-47-0 180
90-12	Blossom Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	44-0-0 44	44-0-0 44
90-13	Slim's Meadow	0-0-138 138	0-0-0 0	110-0-0 110	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	14-0-0 14	0-0-0 0	0-0-0 0
90-14	Green Meadow	0-0-0 0	0-0-0 0	24-0-0 24	50-0-0 50	0-0-0 0	0-15-0 15	0-60-0 60	74-36-0 110	0-0-0 0	0-37-0 37
90-15	Tuohy Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-6-0 6	0-14-0 14	7-0-0 7	0-0-0 0	0-0-0 0
90-16	Summit Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-54-0 54	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
90-17	Cyclone Meadow	0-0-0 0	0-0-0 0	0-0-0 0	10-2-0 12	0-0-0 0	0-10-0 10	0-0-0 0	0-0-0 0	0-0-0 0	0-12-0 12
90-18	Summit Lake Meadow	0-0-0 0	0-0-0 0	0-0-0 0	15-48-0 63	0-0-0 0	0-63-0 63	0-5-0 5	0-0-0 0	0-0-0 0	0-22-0 22
90-19	Quinn Meadow	0-0-7 7	0-0-15 15	0-0-0 0	0-4-15 19	0-0-0 0	0-0-7 7	0-0-0 0	7-0-14 21	0-0-32 32	0-0-9 9
90-2	Ansel Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
90-3	Evelyn Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-30-0 30	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
90-4	Cow Camp	0-2-0 2	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	81-0-18 99	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
90-5.1	Hockett Meadow	0-2-79 81	0-6-374 380	0-3-264 267	0-26-10 36	120-0-161 281	119-78-41 238	184-15-252 451	105-70-168 343	189-66-438 693	258-28-0 286
90-5.2	Hockett Pasture	0-0-308 308	0-0-98 98	0-0-100 100	0-0-169 169	0-0-160 160	0-0-402 402	0-0-0 0	0-0-279 279	0-0-136 136	0-0-299 299
90-6	Sand Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
90-7	Mitchell Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
90-8	Tuohy Ck/S. Fk Kaweah	0-6-0 6	0-0-0 0	0-0-0 0	226-4-0 230	0-0-0 0	0-0-0 0	0-3-0 3	0-0-0 0	34-35-0 69	0-2-0 2
90-9	Lower South Fork Meadow	0-20-0 20	0-0-0 0	20-120-0 140	30-15-0 45	0-0-0 0	0-0-0 0	24-26-0 50	50-16-0 66	0-21-0 21	0-0-0 0
91-1	Ladybug Camp	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-6-0 6	0-8-0 8	0-8-0 8	0-3-0 3
91-2	Whiskey Log Camp	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-4-0 4
91-3	Cahoon Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
92-1	Monarch Lakes	0-0-0 0	0-0-0 0	0-0-0 0	0-1-0 1	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
92-2	Crystal Lakes, Cobalt Lak	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0

Appendix 2: Reported Stock Use by Meadow Forage Area

	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991
92-3 Franklin Lakes	0-0-0 0	0-1-0 1	8-0-0 8	0-0-0 0	4-0-0 4	0-0-0 0	0-21-0 21	0-5-0 5	0-7-0 7	0-0-0 0
93-1 White Chief Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
93-2 Eagle Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
93-3 Mosquito Lakes	0-0-0 0	0-0-0 0	0-0-0 0	0-3-0 3	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
94-1 Mineral Lakes	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-4-0 4	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
95-1 Redwood Canyon	0-0-0 0	0-3-0 3	32-0-0 32	26-14-0 40	0-0-0 0	0-0-0 0	14-0-0 14	0-0-0 0	0-0-0 0	0-0-0 0
96-1 North Fork Kaweah River	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0